

CUSTOMER NO.: 24498

Serial No.: 10/524,898

Office Action dated: November 2, 2005

Response dated: January 19, 2006

PATENT

PTU020010

IN THE CLAIMS:

1. (currently amended) A digital, non spread spectrum, cordless telephone, comprising:

a baseband circuit consisting of non-application specific circuitry, the non-application specific circuitry including Continuous Variable Slope Delta Modulation (CVSD) circuitry for encoding and decoding voice data; and

a non-frequency hopping transmitter ~~having Frequency Division Duplex (FDD) circuitry~~ for transmitting the voice data at a Radio Frequency (RF) transmit power greater than 0dbm using a single division duplex technology, the single division duplex technology being Frequency Division Duplex (FDD) technology.

2. (previously presented) The digital cordless telephone of claim 1, wherein said transmitter limits the Power Spectral Density (PSD) of voice data transmissions to +8dbm in any 3kHz bandwidth.

3. (previously presented) The digital cordless telephone according to claim 1, wherein said baseband circuit further comprises:

a self-synchronizing scrambler for scrambling the voice data; and

a self-synchronizing de-scrambler for unscrambling the voice data.

4. (previously presented) The digital cordless telephone according to claim 1, wherein said scrambler and de-scrambler each comprise a polynomial generator.

5. (previously presented) The digital cordless telephone according to claim 1, wherein said baseband circuit further comprises a clock recovery circuit for generating a clock recovery signal based on an Exclusive-OR logic operation performed on the voice data and a time-delayed version of the voice data, the clock recovery signal consisting of a plurality of pulses aligned with rising and falling edges of the voice data.

6. (original) The digital cordless telephone according to claim 1, wherein said transmitter complies with Federal Communications Commission (FCC) Part 15 rule change.

7. (currently amended) A method for transmitting voice data by a digital cordless telephone, comprising the steps of:

encoded voice data using Variable Slope Delta Modulation;

scrambling the encoded voice data using a non Spread Spectrum Technology (SST); and

transmitting the scrambled voice data using a single division duplex technology without frequency hopping ~~Frequency Division Duplex (FDD)~~ and at a Radio Frequency (RF) transmit power greater than 0dbm, the single division duplex technology being Frequency Division Duplex (FDD) technology.

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8. (previously presented) The method of claim 7, wherein said transmitting step limits the Power Spectral Density (PSD) of the transmitted scrambled voice data to +8dbm in any 3kHz bandwidth.

9. (original) The method of claim 7, wherein said transmitting step complies with Federal Communications Commission (FCC) Part 15 rule change.